

	<u>Model</u>	<u>IO-360-J, -JB</u>	<u>IO-360-K, -KB</u>	<u>IO-360-ES</u>
	<u>Type</u>	- -	- -	- -
Rating, ICAO or ARDC				
Standard atmosphere				
Max. continuous hp., r.p.m. in. Hg. at:				
Critical altitude, ft.				
Sea level pressure altitude		195-2600	195-2600	210-2800 F.T.
Takeoff hp., 5 min., r.p.m. full				
throttle at sea level pressure altitude		210-2800	195-2600	210-2800 F.T.
Fuel (aviation gasoline, minimum grade)		- -	- -	- -
Lubricating oil		- -	- -	- -
Bore and stroke, in.		- -	- -	- -
Displacement, cu. in.		- -	- -	- -
Compression ratio		- -	- -	- -
Weight (dry), lb.		294	294	320
C.G. Location (basic engine)				
Fwd. of front face accessory case, in.		- -	- -	7.08
Below crankshaft centerline, in.		- -	- -	.45
Below crankshaft centerline toward				
1-3-5 side, in.		- -	- -	-.14
Propeller shaft		- -	- -	- -
Fuel injection		- -	- -	TCM Injector 639289A95
Ignition, dual magnetos		- -	- -	- -
Timing, °BTC		- -	- -	24°
Spark plugs		- -	- -	- -
Oil sump capacity		10: 7 usable at 25° noseup and nosedown attitude	- -	8: 5 usable at 26° noseup and 18° nosedown attitude
Notes:		1,2,3,4,5,6,7,8,9	- -	Note 1 except barrel temp. not applicable, 2,3, 4,5,6,7,8,9

"- -" indicates "same as previous model"

"—" indicates "does not apply"

Certification basis	CAR 13, effective June 15, 1956, as amended by 13-1 thru 13-3. Type Certificate No. E1CE issued May 15, 1962, for Model IO-360-A, -B dated September 9, 1963; -C and -D added July 24, 1964; -L added September 30, 1966; -G and -H added September 8, 1972; -J added December 20, 1974; -K added April 6, 1976; -DB, -GB, -JB, -KB added March 13, 1978; -AB, -CB and -HB added April 10, 1979, -ES FAR 33 through Amendment 12 added October 18, 1990.
Production basis	Production Certificate No. 508

NOTE 1. Maximum permissible temperature:
 Cylinder head bayonet, thermocouple 460°F
 Cylinder barrel 310°F
 Oil inlet -A, -B 225°F
 -C, -D, -E, -G, -H, -J, -K, -DB, -GB, -JB,
 -KB, -AB, -CB, -HB, -ES 240°F

NOTE 2. Fuel pressure limits:
 Inlet to injection pump, min. - minus 2 p.s.i.
 max. - plus 8 p.s.i.
 Outlet to vapor return line - plus 3.5 p.s.i.

NOTE 3. Oil pressure limits:
 2-4-6 side - normal 30 to 60 p.s.i.
 - idle 10 p.s.i.

NOTE 4. The following accessory drive or mounting provisions are available:

	Original Accessory	Direction of Rotation*	Speed Ratio to Crankshaft	Max. Torque (in.-lb.)		Maximum Overhang Moment (in.-lb.)
				Continuous	Static	
**	Propeller governor	C	1:1	29	825	50
	Tachometer (Mech. optional)	CC	1.239	7	50	25
***	Vacuum pump Optional	CC	1.545:1	100	800	50
****	(1-3-5 side)	C	1.316:1	27	800	8.3
*****	(2-4-6 side)	CC	1.316:1	27	800	8.3
	Generator	CC	2.035:1	60	600	50
	Oil Cooler					65

Starter: TCM P/N 627841 (Delco-Remy P/N 1108234) eligible.

*C - Clockwise viewing drive pad; CC - Counterclockwise.

**Modified AND 20010 pad.

***AND 20000 pad modified for speed, -A, -AB, -B, -D, -DB, -E, H, -HB, -J, -JB, -K, -KB, -ES only.

****AND 20000 pad - Modified (no oil provision; accessory clearances limited) -C, -CB, -G, and -GB only.

*****AND 20000 pad - Modified -C, -GN, -G, and -GB only.

NOTE 5. The Model IO-360-D is similar to IO-360-A except for rating and oil cooled pistons.
 The Model IO-360-B is similar to IO-360-A except for reduced compression ratio and rated power.
 The Model IO-360-C is similar to IO-360-D except for accessory drive provisions.
 The Model IO-360-E is similar to IO-360-D except for oil sump and suction tube.
 The Model IO-360-G is similar to IO-360-C except for crankshaft counterweight tuning.
 The Model IO-360-H is similar to IO-360-D except for crankshaft counterweight tuning.
 The Model IO-360-J is similar to IO-360-H except for rating.
 The Model IO-360-K is similar to IO-360-H except for rating.
 The Model IO-360-DB is similar to the IO-360-D except for modified crankshaft.
 The Model IO-360-GB is similar to the IO-360-G except for modified crankshaft.
 The Model IO-360-JB is similar to the IO-360-J except for modified crankshaft.
 The Model IO-360-KB is similar to the IO-360-K except for modified crankshaft.
 The Model IO-360-AB is similar to the IO-360-A except for modified crankshaft.
 The Model IO-360-CB is similar to the IO-360-C except for modified crankshaft.
 The Model IO-360-HB is similar to the IO-360-H except for modified crankshaft.
 The Model IO-360-ES is similar to the IO-360-HB except for the modified spider induction system.

NOTE 6. These engines are eligible for installation of TCM Eq. No. 6001 oil filter adapter.

NOTE 7. Models IO-360-A, -B, -C, -D and -E incorporate crankshaft with two 6th order dampers. Models IO-360-AB, -CD, -DB, -HB, -G, -GB, -H, -J, -JB, -K, and -KB incorporate crankshaft with one 6th and one 4 1/2 order damper. Model IO-360-ES incorporates crankshaft with one 6th and one 4 1/2 order damper.

NOTE 8. The IO-360-A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB, -ES are eligible for pusher and tractor operation and are approved for installation of propellers or propeller-fan combination having inertias up to 20.-lb sec. and overhang moments up to 490 in.-lb. The maximum overhung weight and moment are 70 lb. and 8 in. respectively.

NOTE 9. The following spark plugs are approved for these engines:

<u>Engine Models</u>	<u>Spark Plugs</u>	
IO-360-A, -AB, -C, -CB, -D, -E, -G, -H, -HB, -J, -K, -DB, -GB, -JB, -KB, -ES	AC Auto Lite Champion Smiths Industries	SR86, HSR86 SH26, SH260 REM38E, REM38P, RMM38E, RHM38P RSE-23-3R, RSH-23-3R
IO-360-B	AC Auto Lite Champion Red Seal Smiths Industries	SR83IR, SR83P, HSR83P, S88, HS88, HSR83IR, S88D, SR88, SR88D, HSR88 SH15, SH15R, SH20A, SH200A RHM38E, REM38P, RHM38P, REM40E, RHM40E, EM42E SJ190, SE230, SJ230, SE270 RSE-23-3R, RSH-23-3R

NOTE 10. Those engines which are designated with a suffix letter "B" (i.e., IO-360-DB) are interchangeable with those engines of the same model letter without the suffix letter (i.e., IO-360-D).

Those engines which are designated without the suffix letter (i.e., IO-360-D) are non-interchangeable with those engines which are designated with the suffix letter "B" (i.e., IO-360-DB).

NOTE 11. The following magnetos with the appropriate harness are eligible on these engines at the indicated weight change.

Magneto Model	Weight Change
Two TCM/Bendix S6LN-25	None
Two TCM S6LSC-25	None
One TCM S6LSC-25T (R) and One TCM S6LSC-25 (L)	None
Two Slick 6214	-1.4 lb.
Two Slick 6314	-1.4 lb.

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